		BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
LLL	III	BBB BBB	RRR RRR	III	LLL
LLL	III	BBB BBB	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	88888888BBB	RRRRRRRRRRR	III	LLL
LLL	111	B8888888BBB	RRRRRRRRRRR	III	LLL
LLL	111	88888888888	RRRRRRRRRRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	888 888	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL	111	BBB BBB	RRR RRR	III	LLL
LLL		BBB BBB	RRR RRR	III	LLL
LLLLLLLLLLLLLLL	111111111	BBBBBBBBBBBB	RRR RRR	III	LLLLLLLLLLLLLLLL
LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	111111111	88888888888	RRR RRR	III	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL
LLLLLLLLLLLLLLLLL	111111111	88888888888	RRR RRR	TTT	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL

LI

000000 00 00 00 00	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\$
		\$
		\$\$ \$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$

000000		\$\$\$\$\$\$\$\$ \$\$\$\$\$\$\$\$	3333333	VV	VV		PPPPPPPP	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	
00 00 00 00 00 00 00 00 00 00 00 00	II	SS	CC	VV	VV	II	PP PP	DD	DD
00 00	11	55	CC	VV	VV	TT	PP PP	DD	DD
00 00	TT	SS	CC	VV	VV	TT	PP PP	DD	DD
00 00	TT	SS	CC	VV	VV	TT	PP PP	DD	DD
00 00	TT	SSSSSS	ČČ	VV	VV	ŤŤ	РРРРРРР	DD	DD
00 00	ŤŤ	SSSSSS	ČČ	VV	VV	ŤŤ	PPPPPPPP	DD	DD
00 00	TT	SS	ČČ	VV	VV	ŤŤ	PP	DD	DD
00 00	ŤŤ	SS	ČČ	VV	VV	ŤŤ	PP	DD	DD
00 00	TT	SS	ČČ	VV	VV	ŤŤ	PP	DD	DD
00 00	TT	SS	ČČ	VV	VV	ŤŤ	PP	DD	DD
000000	ŤŤ	SSSSSSSS	2222222	V	V	ŤŤ	PP	DDDDDDDD	
000000	ŤŤ	SSSSSSSS	2222222		V	ŤŤ	PP	DDDDDDDD	

D 1 16-SEP-1984 00:25:19 VAX/VMS Macro V04-00 OTSSCVTPD R9 Table of Contents Convert Packed to Double Page HISTORY DECLARATIONS OTS\$CVTPD\_R9 ; Detailed Current Edit History

Marty Jack, 14-Mar-1979

AUTHOR:

MODIFIED BY:

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PS -

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Ir Co Pa S) Pa S) Ps Cr As

7h 81 7h 17

19 TH OTSSCVTPD\_R9

01

```
H 1
OTSSCVTPD_R9
                                          Convert Packed to Double OTS$CVTPD_R9
                                                                                                                              VAX/VMS Macro V04-00
[LIBRTL.SRC]OTSCVTPD.MAR;1
                                                                          .SBTTL OTS$CVTPD_R9
                                                               FUNCTIONAL DESCRIPTION:
                                                                          Converts packed numbers to double floating.
                                                                  CALLING SEQUENCE:
                                                                          JSB OTS$CVTPD_R9 (scale.rl.v. srclen.rl.v. src.rp.r. dst.wd.r)
                                                 Arguments are passed in R6, R7, R8 and R9.
                                                                  INPUT PARAMETERS:
                                                                                                          The power of ten by which the internal representation of the source must be multiplied to scale the same as the internal representation of the dest. The number of digits in the source
                                                                          SCALE. PL.V
                                                                          SRCLEN.rl.v
                                                                                                          The number to be converted
                                                                          SRC.rp.r
                                                                  IMPLICIT INPUTS:
                                                                          All of the trap bits in the PSL are assumed off.
                                                                  OUTPUT PARAMETERS:
                                                 0000
0000
                                                                          DST.wd.r
                                                                                                         The place to store the converted number
                                                 0000
                                                 0000
0000
                                                                  IMPLICIT OUTPUTS:
                                                                          NONE
                                                                  FUNCTION VALUE:
                                                                          1 = SUCCESS, 0 = FAILURE
                                                                  SIDE EFFECTS:
                                                                          Destroys registers RO through R9.
                                                               OTS$CVTPD_R9::
COB$CVTPD_R9::
                                                                                                                     ; Space for temp string and result ; Make a separate sign string
                                           80
                                                                                    #40,SP
R7,(R8),#31,8(SP)
                                                                  Make a descriptor for the leading separate string.
                                            90
90
80
                                                                          PUSHL
                                                                                                                       Address = temp string
                                                                                                                       Class = static
                                                                          MOVB
                                                                                                                    : Data type = ASCII text
: Length = 32 bytes
                                                                          MOVB
```

MOVW

Page

```
1 1
                                    Convert Packed to Double OTS$CVTPD_R9
                                                                                                                        16-SEP-1984 00:25:19 VAX/VMS Macro V04-00 6-SEP-1984 11:13:14 ELIBRTL.SRCJOTSCVTPD.MAR;1
                                                                    : Now call the conversion routine.
                                                             155
156
157
158
159
160
161
163
164
165
166
170
171
172
173
174
                                                                                                                                                         Scale factor
Digits in fraction
Address of result area
Address of descriptor
Call the routine
Failure, must be overflow
Store result
                  7E
                                      CE DD 9F FB 700 COS
                                                                                                    16(SP)
12(SP)
#4,G^OTS$CVT_T_D
R0,2$
8(SP),(R9)
                                                                                      PUSHAB
                                                                                      PUSHAB
00000000 GF
                                                                                     CALLS
BLBC
MOVD
                08
08
50
5E
            69
                                                                                                     #1,R0
#48,SP
                                                                                                                                                          Indicate success
Delete stack temps
                                                                                      MOVL
                                                                                     ADDL2
RSB
                                                                                                                                                          Return
                                                                         Come
                                                                                   here on overflow to store the reserved operand.
                            0F
50
F4
        69
                                                                                     ASHQ
CLRL
BRB
                                                                                                                                                      : Store reserved operand
: Indicate failure
: Delete stack temps and return
                  01
                                                                                                     #15,#1,(R9)
                                                                                                     RO
15
                                                                                      .END
```

0TS\$CVTPD\_R9

```
OT
```

```
OTS$CVTPD R9
                                                                                                                      16-SEP-1984 00:25:19 VAX/VMS Macro V04-00 6-SEP-1984 11:13:14 [LIBRTL.SRC]OTSCVTPD.MAR;1
                                                    Convert Packed to Double
                                                                                                                                                                                                       Page
Symbol table
                                                     00000000 RG
00000001
0000000E
00000000 RG
COBSCVTPD_R9
                                                                              02
DSCSK_CLASS_S
DSCSK_DTYPE_T
OTSSCVTPD_R9
                                                  =
                                                  =
                                                                              00
OTSSCVT_T_D
                                                      ******
                                                                                 Psect synopsis
PSECT name
                                                    Allocation
                                                                                    PSECT No.
                                                                                                      Attributes
                                                    00000000
00000000
0000003C
                                                                                                      NOPIC
NOPIC
PIC
                                                                                             0.)
                                                                                                                                                               NOEXE
EXE
EXE
                                                                                                                                                                                   NOWRT NOVEC BYTE NOWRT NOVEC LONG
     ABS
                                                                                                                                                LCL NOSHR
                                                                                                                                                LCL NOSHR
LCL SHR
SABS$
                                                                                                                   USR
                                                                                                                             CON
                                                                                                                                       ABS
 _OTS$CODE
                                                                            Performance indicators !
Phase
                                         Page faults
                                                                 CPU Time
                                                                                         Elapsed Time
                                                                00:00:00.04
00:00:00.31
00:00:01.14
00:00:00.32
00:00:00.01
00:00:00.02
00:00:00.00
                                                                                         00:00:01.99
00:00:03.23
00:00:04.85
00:00:00.11
00:00:01.94
Initialization
Command processing
Pass 1
Symbol table sort
Pass 2
Symbol table output
Psect synopsis output
                                                                                         00:00:00.01
                                                                                         00:00:00.00
```

The working set limit was 1050 pages.
8117 bytes (16 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 134 non-local and 2 local symbols.
174 source lines were read in Pass 1, producing 10 object records in Pass 2.
8 pages of virtual memory were used to define 7 macros.

Macro library statistics !

Macro Library name

Cross-reference output Assembler run totals

Macros defined

\_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

190 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:OTSCVTPD/OBJ=OBJ\$:OTSCVTPD MSRC\$:OTSCVTPD/UPDATE=(ENH\$:OTSCVTPD)

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